API NUMBER: 043 23780

OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)

Approval Date: 07/24/2023

Expiration Date: 01/24/2025

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOOATION	0	Tarres alties 44	Dane.	45\\\	0	NEWEY.							
WELL LOCATION:	Section: 05	Township: 18	sin Range	e: 15W	County: [DEVVEY							
SPOT LOCATION:	NW NE N	E NE	FEET FROM QUARTE	R: FROM	NORTH	FROM EAST							
			SECTION LINE	S:	250	360							
Lease Name:	SHIRLEY			Well No:	5-32-1H		Well will be	250	feet from	nearest unit	or lease bou	ındary.	
Operator Name:	COMANCHE EXPLO	RATION CO LLC		Telephone:	40575559	00			ОТС	C/OCC Numl	ber: 206	631 0	
COMANCHE EXPLORATION CO LLC						JOHNNIE D. CLARK & SHIRLEY C. CLARK REVOC TRUST							
					P.O. BOX 205								
OKLAHOMA CITY, OK 73116-7334						CANTON			OK	73724-0	205		
Formation(s)	(Permit Valid for	· Listed Form	ations Only):										
	(Femili Valid IOI		ations Only).		1								
Name		Code		Depth									
1 MISSISSIPP	PIAN (LESS CHESTER)	359MSN	LC	10284									
Spacing Orders:	733062		Loc	ation Excep	otion Orders	: 733421		Inc	reased Der	nsity Orders:	No Der	nsity	
Pending CD Number	ers: No Pendir	na		Working int	erest owner	rs' notified: YES			Spe	ecial Orders:	No Spe	ecial	
Total Depth: 1		nd Elevation: 191	s S	iurfaca (Casing:	850	Depth	to base o	of Treatable	Water-Bearin	a FM: 430		
Total Doptil.	oroa Groun	ia Lievation. To i		uiiacc	Jasing.							approved	
									eep sun	ace casing	nas beer	approveu	
Under Federal Jurisdiction: No						Approved Method for disposal of Drilling Fluids:							
	Supply Well Drilled: I Water used to Drill: I					D. One time land application (REQUIRES PERMIT) PERMIT NO: 23-39154							
Sunace	e water used to brill.	10				H. (Other)		SEE ME	МО				
PIT 1 INFOR	MATION					Ca	ategory of Pit: C						
Type of Pit System: CLOSED Closed System Means Steel Pits						Liner not required for Category: C							
Type of Mud System: WATER BASED						Pi	t Location is: AP/TE	DEPOSIT	Г				
Chlorides Max: 8000 Average: 5000						Pit Location Formation: TERRACE							
Is depth to	top of ground water gre	ater than 10ft belo	ow base of pit? \	′									
Within 1 r	mile of municipal water	well? N											
	Wellhead Protection A	Area? N											
Pit <u>is</u> lo	ocated in a Hydrological	lly Sensitive Area.											
PIT 2 INFORMATION						Category of Pit: C							
Type of Pit System: CLOSED Closed System Means Steel Pits						Liner not required for Category: C							
Type of Mud System: OIL BASED						Pit Location is: AP/TE DEPOSIT							
Chlorides Max: 300000 Average: 200000						Pit Location	Pit Location Formation: TERRACE						
Is depth to	top of ground water gre	ater than 10ft bel	ow base of pit? \	Y									
Within 1 r	mile of municipal water	well? N											
	Wellhead Protection A	Area? N											
Pit is Id	ecated in a Hydrological	Ily Sonsitivo Aroa											

HORIZONTAL HOLE 1

Section: 32 Township: 19N Range: 15W Meridian: IM Total Length: 4895

County: DEWEY Measured Total Depth: 15755

Spot Location of End Point: NW NE NE NE True Vertical Depth: 10284

Feet From: NORTH 1/4 Section Line: 135 End Point Location from Lease, Unit, or Property Line: 135

NOTES:	
Category	Description
DEEP SURFACE CASING	[7/24/2023 - GE7] - APPROVED; (1) NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING. (2) SUBSEQUENT WELLS ON SAME PAD WILL NOT BE ALLOWED DEEP SURFACE CASING IN THE EVENT OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING.
HYDRAULIC FRACTURING	[7/24/2023 - GE7] - OCC 165:10-3-10 REQUIRES:
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS. FORM 6000NHF SHALL BE FOUND HERE: HTTPS://OKLAHOMA.GOV/OCC/DIVISIONS/OIL-GAS/OGCD-FORMS; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INTERMEDIATE CASING	[7/24/2023 - GE7] - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER- PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
LOCATION EXCEPTION - 733421 (CD2023- 003937)	[7/24/2023 - GB7] - (I.O.) 32-19N-15W X733062 MSNLC, OTHERS COMPL INT NCT 165' FNL, NCT 165' FSL, NCT 330' FEL (MSNLC, OTHERS) COMANCHE EXPLORATION COMPANY LLC 04/04/2023
МЕМО	[7/24/2023 - GE7] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 733062	[7/24/2023 - GB7] - (640)(HOR) 32-19N-15W VAC 201213 MPLM, OTHER** EST MSNLC, OTHERS

COMPL INT NCT 660' FB
**SP# 201213 NEVER SPACED MPLM, IT SPACED CSTR AND WAS VAC BY SP# 245931